



**RADIALL**

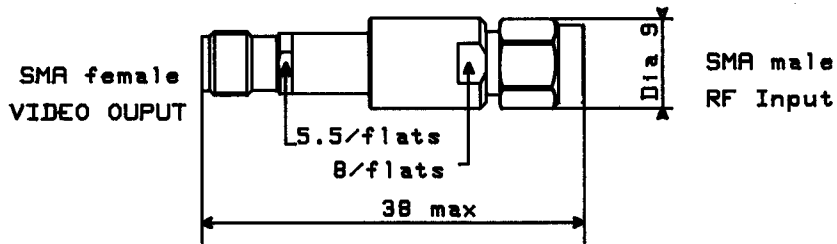
**R451542500**

**TECHNICAL  
DATA SHEET**

**TITLE** WIDE BAND COAXIAL DETECTOR

**LTR.** A

DRAWING:



General tolerances:  $\pm 0.5$  mm

ELECTRICAL CHARACTERISTICS:

FREQUENCY RANGE : .01 - 18 GHz  
 IMPEDANCE : 50 Ohms  
 V.S.W.R. from 0.01 to 8 GHz :  $\leq 1.35$   
 from 8 to 18 GHz :  $\leq 1.50$   
 FREQUENCY RESPONSE (0.01- 8 GHz):  $\pm 0.2$  dB/Octave  
 (0.01-12.4 GHz):  $\pm 0.5$  dB  
 (0.01-18 GHz):  $\pm 1$  dB

SENSITIVITY :  
 Low level :  $> 500$  mV / mW  
 ( Input power  $\leq -20$  dBm )  
 High level :  $> 100$  mV  
 ( Input power = 0.35 mW )

POLARITY : Positive  
 TANGENTIAL SENSITIVITY : - 44 dB mini  
 SQUARE LAW RESPONSE LIMIT : - 12 dBm  
 VIDEO IMPEDANCE : 1 k $\Omega$  typical  
 FILTERING CAPACITY : 20 pF typical  
 MAXIMUM POWER : 200 mW CW  
 DIODE : SCHOTTKY << zero Bias >>

MECHANICAL CHARACTERISTICS:

INPUT CONNECTOR : SMA male per MIL C 39012  
 VIDEO OUPUT CONNECTOR : SMA female per MIL C 39012  
 MAXIMUM WEIGHT : 12 grams

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE RANGE : - 65°C + 120°C  
 STORAGE TEMPERATURE RANGE : - 65°C + 120°C  
 NOMINAL FOR USE : - 25°C + 70°C  
 VIBRATIONS ( STD 202 ) : Method 204 Condition D  
 SHOCS ( STD 202 ) : Method 213 Condition I

Tentative data subject to change without notice.

PEN 	QUALITY Dpt App. 					
	PAGE 1/1	DATE 09/12/91	NAME K. LUCIEN	LTR	REVISIONS	DATE

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